

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A portable wireless memory module for storing data, said module comprising:

a power supply unit;

a transmitter/receiver circuit for (i) wirelessly receiving data and commands communicated to said module from any of a plurality of processing system systems and (ii) wirelessly transmitting stored data from said module, said wireless reception and transmission using radio waves;

at least one memory device for storing said data received by and sent from said transmitter/receiver circuit; and

a controller in communication with said at least one memory device and said transmitter/receiver circuit for storing data in said memory device received by said transmitter/receiver circuit and for retrieving stored data from said memory device for transmission by said transmitter/receiver circuit from said module, in such a way that the memory module functions like an extra hard drive on said processor system.

2. (Canceled)

3. (Previously Presented) A memory module according to claim 1, wherein said radio waves have a frequency in the range of about 900 MHz to about 10 GHz.

4. (Previously Presented) A memory module according to claim 1, wherein said radio waves are Bluetooth™ compliant radio waves.

5. (Previously Presented) A memory module according to claim 1, wherein said transmitter/receiver automatically establishes a radio wave communications path with a processing system when within a vicinity of the processing system which is sufficient to establish a wireless communications path.

6. (Original) A memory module according to claim 3, wherein said frequency is about 2.4 GHz.

7. (Canceled)

8. (Canceled)

9. (Previously Presented) A memory module according to claim 1, wherein said power supply unit comprises at least one battery.

10. (Original) A memory module according to claim 9, wherein said at least one battery is rechargeable.

11. (Original) A memory module according to claim 10, said power supply unit further comprising terminals for communicating with a recharger for recharging said at least one rechargeable battery.

12. (Original) A memory module according to claim 1, wherein said memory device comprises a dynamic random access memory device.

13. (Original) A memory module according to claim 1, wherein said memory device comprises a flash memory device.

Claims 14-21 (Canceled)

22. (Previously Presented) A system for the wireless transfer of data, said wireless data transfer system comprising:

(a) a first processor system comprising:

at least one first processor system memory device;

a first processor system transmitter/receiver circuit for (i) wirelessly receiving data communicated to said first processor system and (ii) wirelessly transmitting data and commands from said first processor system; and

a first processor system controller in communication with said at least one first processor system memory device and said first processor system transmitter/receiver circuit for storing data in said memory device received by said transmitter/receiver circuit and for retrieving data from said memory device for transmission by said transmitter/receiver circuit from said first processor system; and

(b) a portable memory module, providing memory storage for said first processing system, the portable memory module comprising:

at least one memory module memory device for storing data;

a memory module transmitter/receiver circuit for (i) wirelessly receiving data to be stored and commands communicated to said module from said first processor system and (ii) wirelessly transmitting stored data from said module; and

a memory module controller in communication with said at least one memory module memory device and said memory module transmitter/receiver circuit for storing data in said portable memory module memory device received by said portable memory module transmitter/receiver circuit from said first processor system

and for retrieving stored data received from said first processor system from said portable memory module memory device for transmission by said portable memory module transmitter/receiver circuit from said module to any of a plurality of other processing systems.

23. (Canceled)

24. (Previously Presented) A system for the wireless transfer of data according to claim 22, wherein said wireless transmission and reception uses radio waves.

25. (Previously Presented) A system for the wireless transfer of data according to claim 22, wherein said radio waves have a frequency in the range of about 900 MHz to about 10 GHz.

26. (Previously Presented) A system for the wireless transfer of data according to claim 22, wherein said radio waves are Bluetooth™ compliant radio waves.

27. (Currently amended) A system for the wireless transfer of data according to claim 22, wherein said first processor system transmitter/receiver, said memory module transmitter/receiver and transmitters/receivers of said any of a plurality of other processing systems ~~transmitter/receiver~~ automatically establish a radio wave communications path between said memory module and either of said first or said any of a plurality of other processing systems when within a vicinity sufficient to establish a wireless communications path.

28. (Previously Presented) A system for the wireless transfer of data according to claim 25, wherein said frequency is about 2.4 GHz.

29. (Previously Presented) A system for the wireless transfer of data according to claim 22, said memory module further comprising a self-contained electrical power supply unit at said module for providing operating power to electrical components at said module.

30. (Previously Presented) A system for the wireless transfer of data according to claim 29, wherein said power supply unit comprises at least one battery.

31. (Previously Presented) A system for the wireless transfer of data according to claim 30, wherein said at least one battery is rechargeable.

32. (Previously Presented) A system for the wireless transfer of data according to claim 31, said power supply unit further comprising terminals for communicating with a recharger for recharging said at least one rechargeable battery.

33. (Previously Presented) A system for the wireless transfer of data according to claim 32, wherein said recharger is a stand-alone recharger.

34. (Previously Presented) A system for the wireless transfer of data according to claim 32, wherein said first processor system comprises said recharger.

35. (Previously Presented) A system for the wireless transfer of data according to claim 22, wherein said wireless transmission and reception uses light waves.

36. (Previously Presented) A method of wireless data transfer, said method comprising:

wirelessly transmitting data from a first processor system to a portable memory module;

receiving with said portable memory module said data transmitted from the first processor system and storing said received data at said memory module; and

wirelessly transmitting stored data previously received from said first processor system from said portable memory module to any of a plurality of other processing systems.

37. (Canceled)

38. (Original) A method according to claim 36, wherein said wireless transmission and reception uses radio waves.

39. (Previously Presented) A method according to claim 38, wherein said radio waves have a frequency in the range of about 900 MHz to about 10 GHz.

40. (Original) A method according to claim 38, wherein said radio waves are Bluetooth™ compliant radio waves.

41. (Previously Presented) A method according to claim 36, further comprising automatically establishing a radio wave communications path between said portable memory module and said first processor system when said portable memory module and said first processor system are within a sufficiently close vicinity of one another to establish a wireless communications path.

42. (Previously Presented) A method according to claim 36, wherein said frequency is about 2.4 GHz.

43. (Original) A method according to claim 36, wherein said wireless transmission and reception uses light waves.

44-53. (Canceled)

54. (Previously Presented) A memory module according to claim 1, wherein said data comprises data files.

55. (Previously Presented) A wireless portable memory module system comprising:

a recharger for detachably receiving and recharging thereat a portable memory module having a rechargeable power supply; and

said portable memory module comprising:

a memory device for storing data;

a transmitter/receiver for wirelessly exchanging data with a processor system using radio waves;

a controller coupled to said transmitter/receiver for receiving data and storing said received data in said memory device and for retrieving stored data from said memory device for transmitting said stored data from said memory module in such a way that the memory module functions like an extra hard drive on said processor system; and

a rechargeable power supply.

56. (Previously Presented) The system of claim 55, wherein said recharger is a stand-alone recharging station.

57. (Previously Presented) The system of claim 55, wherein said recharger is part of a processing system having a processor.

58. (Previously Presented) The system of claim 55, wherein said rechargeable power supply is a battery and said recharger is a battery charger.

59. (Previously Presented) The system of claim 55, wherein the recharger comprises a plug for receiving and connecting to said portable memory module.

60. (Previously Presented) The system of claim 59, wherein said portable memory module further comprises at least one terminal at said rechargeable power supply for connection with said plug.

61. (Previously Presented) A portable wireless computer storage device comprising:

a transmitter/receiver circuit for directly and wirelessly receiving data storage commands and data for storage from a general purpose computer and for directly and wirelessly transmitting stored data to a general purpose computer;

at least one memory device for storing data; and

a controller in communication with said transmitter/receiver circuit and said at least one memory device for storing in said memory device data received from a general purpose computer in response to a command and for retrieving stored data from said memory device for transmission to a general purpose computer in response to a command from a general purpose computer in such a way that the at least one memory module functions like an extra hard drive on said general purpose computer.

62. (Previously presented) A portable wireless computer storage device according to claim 61, wherein said wireless transmission and reception uses Bluetooth™ compliant radio waves.

63. (Previously presented) A portable wireless computer storage device according to claim 61, wherein said general purpose computer is one of a laptop computer or a desktop computer.

64. (Previously presented) A portable wireless computer storage device according to claim 61, wherein said at least one memory device comprises a dynamic random access memory device.

65. (Previously presented) A portable wireless computer storage device according to claim 61, wherein said at least one memory device comprises a flash memory device.

66. (Previously presented) A portable wireless computer storage device according to claim 61, wherein said portable wireless computer storage device is adapted to wirelessly transmit retrieved, stored data from said at least one memory device to any of a plurality of general purpose computers.

67. (Previously Presented) A method of wireless data transfer among general purpose processor systems, the method comprising the acts of:

directly and wirelessly transmitting data from a first general purpose processor system to a portable memory module comprising a memory device;

receiving with said portable memory module said data transmitted from the first general purpose processor system and storing said received data in said memory device; and

directly and wirelessly transmitting stored data previously received from said first general purpose processor system from said portable memory module to any of a plurality of other general purpose processor systems.

68. (Previously presented) A method according to claim 67, wherein said direct and wireless transmission and reception uses radio waves.

69. (Previously presented) A method according to claim 68, wherein said radio waves have a frequency in the range of about 900 MHz to about 10 GHz.

70. (Previously presented) A method according to claim 68, wherein said radio waves are Bluetooth™ compliant radio waves.

71. (Previously presented) A method according to claim 67, further comprising automatically establishing a radio wave communications path between said portable memory module and said first general processor system when said portable memory module and said first processor system are within a sufficiently close vicinity of one another to establish a wireless communications path.

72. (New) A memory module according to claim 1, wherein said at least one memory device comprises at least 100 Mbytes of memory.